Warm Up

Compare 10 Ω and 6 Ω resistors in a series circuit and a parallel circuit.

Two resistors, one 10Ω and the other 6Ω , are connected in series. The resistors are then connected to a 12-V battery.

Two resistors, one 10 Ω and the other 6 Ω , are connected in parallel. The resistors are then connected to a 12-V battery.

- 1. Draw the circuit.
- 2. What is the total resistance of the circuit?
- 3. What is the current in the circuit?
- 4. What is the current through each resistor?
- 5. What is the voltage drop at each resistor?

- 1. Draw the circuit.
- 2. What is the current through each resistor?
- 3. What is the total current in the circuit?
- 4. What is the equivalent resistance of the circuit?